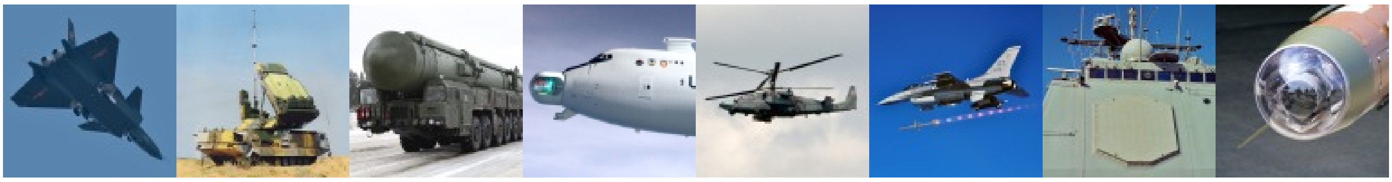
Last Updated: Mon Jan 27 11:18:09 UTC 2014

Air Power Australia Technical Reports and Discussion Papers

AIR POWER AUSTRALIA

DEFENDING THE FUTURE



Air Power Australia research activities cover air power and broader military research and analysis, especially in the context of a modern integrated joint national force structure.

The *Air Power Australia Technical Report* series address research topics, which typically in scope, depth or innovation are lesser than formal research papers in the *APA Analyses* peer reviewed journal. Technical Reports and Discussion Papers are thus typically narrower in scope, and often focus on technical intelligence collection and analysis, rather than deeper and more fundamental problems in strategy, force structure, governance and planning.

***Air Power Australia Technical Reports and Discussion Papers* are peer reviewed by the APA Editorial Board, but many have also been subjected to independent external peer review, where this was considered to be warranted for the topic in question.**

Air Power Australia Technical Reports and Discussion Papers
Editor-in-Chief: Dr Carlo Kopp, PEng, FLSS, AFAIAA, SMIEEE Email **Cell:** +61-437-478-224
Associate Editor: Peter Goon, FTE **Cell:** +419-806-476 (Australia)
Editorial Board: APA policy is not to disclose editorial board membership.
Dewey: 355, 358, 359, 623, 662
Library of Congress: U, UA, UB, UC, UD, UE, UF, UG, UH, TJ, TK, TL, TR
Publisher: Air Power Australia - *Australia's Independent Defence Think Tank*
APA Research Policy Statement

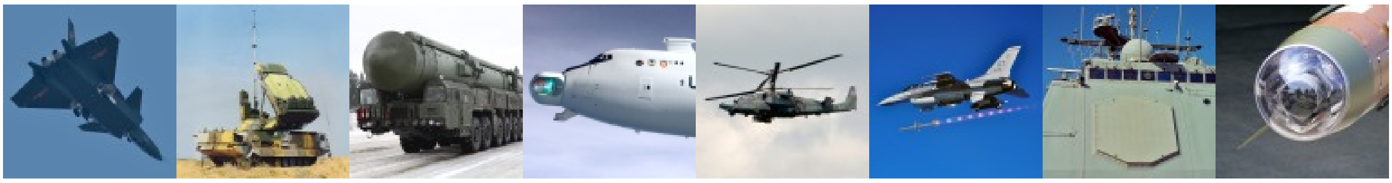
Air Power Australia is a non-profit entity, which is not affiliated with the Department of Defence, the Australian Defence Force or any other Commonwealth organisation. Air Power Australia is funded by its founders and contributors, and it has no funding relationships with any defence contractors, or affiliated entities.

Air Power Australia Technical Report Master Index

Author(s)	Technical Report Number	*Technical Report Title*	Format
C. Kopp	**APA-TR-2004-1001**	***76N6 Clam Shell Low Altitude Acquisition Radar***	HTML
C. Kopp	**APA-TR-2005-0501**	***The GBU-28 Bunker Buster***	HTML
C. Kopp	**APA-TR-2005-0701**	***Warship Vulnerability***	HTML
C. Kopp	**APA-TR-2005-0702**	***Tomahawk Variants***	HTML
C. Kopp	**APA-TR-2006-1201**	***SA-10/20/21 Grumble/Gargoyle***	HTML
C. Kopp	**APA-TR-2006-1202**	***SA-12/SA-23 Giant/Gladiator***	HTML
C. Kopp	**APA-TR-2007-0101**	***Sukhoi Flankers***	HTML
C. Kopp	**APA-TR-2007-0102**	***Assessing the Joint Strike Fighter***	HTML
C. Kopp	**APA-TR-2007-0103**	***PLA Air Force and Naval Air Arm Air Base Infrastructure***	HTML
C. Kopp	**APA-TR-2007-0104**	***PLA-AF and PLA-N Legacy Fighters***	HTML
C. Kopp	**APA-TR-2007-0105**	***Assessing the F-22A Raptor***	HTML
C. Kopp	**APA-TR-2007-0106**	***Small Diameter Bomb***	HTML
C. Kopp	**APA-TR-2007-0107**	***Chengdu J-10***	HTML
C. Kopp	**APA-TR-2007-0108**	***Sukhoi Su-34 Fullback***	HTML
C. Kopp	**APA-TR-2007-0109**	***Precision Guided Munitions in the Region***	HTML
C. Kopp	**APA-TR-2007-0401**	***Maritime Strike using the F-22A Raptor***	HTML
C. Kopp	**APA-TR-2007-0402**	***Defeating Cruise Missiles***	HTML
C. Kopp	**APA-TR-2007-0701**	***Tupolev Tu-22M3 Backfire C***	HTML
C. Kopp	**APA-TR-2007-0702**	***The PLA-AF's Airborne Early Warning & Control Programs***	HTML
C. Kopp	**APA-TR-2007-0703**	***The PLA-AF's Aerial Refuelling Programs***	HTML
C. Kopp	**APA-TR-2007-0704**	***Soviet Maritime Reconnaissance, Targeting, Strike and Electronic Combat Aircraft***	HTML
C. Kopp	**APA-TR-2007-0705**	***XAC (Xian) H-6 Badger***	HTML
C. Kopp	**APA-TR-2007-0706**	***Tupolev Tu-95 and Tu-142 Bear***	HTML
C. Kopp	**APA-TR-2007-0707**	***Hard Kill Counter-ISR Programs***	HTML
C. Kopp	**APA-TR-2007-0708**	***The Cruise Missile Proliferation Problem***	HTML
C. Kopp	**APA-TR-2007-0901**	***Russian / PLA Low Band Surveillance Radars***	HTML
C. Kopp	**APA-TR-2008-0101**	***Air Power vs Refuelling Infrastructure***	HTML
C. Kopp	**APA-TR-2008-0102**	***The US Air Force Synthetic Fuels Program***	HTML
C. Kopp	**APA-TR-2008-0301**	***The Russian Philosophy of Beyond Visual Range Air Combat***	HTML
C. Kopp	**APA-TR-2008-0401**	***Flanker Radars in Beyond Visual Range Air Combat***	HTML
C. Kopp	**APA-TR-2008-0402**	***NNIIRT 1L119 Nebo SVU / RLM-M Nebo M***	HTML
C. Kopp	**APA-TR-2008-0403**	***Phazotron Zhuk AE/ASE / Assessing Russia's First Fighter AESA***	HTML
C. Kopp	**APA-TR-2008-0501**	***High Energy Laser Directed Energy Weapons***	HTML
C. Kopp	**APA-TR-2008-0502**	***Russian / Soviet Point Defence Weapons***	HTML
C. Kopp	**APA-TR-2008-0503**	***Warsaw Pact / Russian / PLA Emitter Locating Systems / ELINT Systems***	HTML
C. Kopp	**APA-TR-2008-0601**	***SAM System Mobility / Russian and PLA Air Defence System Vehicles***	HTML
C. Kopp	**APA-TR-2008-0601-A**	***S-300P/S-400/S-500 Air Defence System Vehicles***	HTML
C. Kopp	**APA-TR-2008-0601-B**	***S-300V/VM / SA-12/23 Air Defence System Vehicles***	HTML

C. Kopp	**APA-TR-2008-0601-C**	***Legacy Air Defence System Vehicles***	HTML
C. Kopp	**APA-TR-2008-0601-D**	***Russian and PLA Point Defence System Vehicles***	HTML
C. Kopp	**APA-TR-2008-0602**	***Warsaw Pact / Russian Air Defence Command Posts***	HTML
C. Kopp	**APA-TR-2008-0603**	***Sukhoi Su-33 and Su-33UB Flanker D / Shenyang J-15 Flanker D***	HTML
C. Kopp	**APA-TR-2008-0701**	***Theatre Ballistic Missile Defence Systems***	HTML
C. Kopp	**APA-TR-2008-0901**	***Shenyang J-11B/BH/BS/BSH Flanker B/C+***	HTML
C. Kopp	**APA-TR-2009-0101**	***Search and Acquisition Radars (S-Band, X-band)***	HTML
C. Kopp	**APA-TR-2009-0102**	***Engagement and Fire Control Radars (S-band, X-Band, Ku/K/Ka-band)***	HTML
J. C. Wise	**APA-TR-2009-0103**	***PLA Air Defence Radars***	HTML
M. Andrew	**APA-TR-2009-0301**	***PLA Point Defence Systems***	HTML
C. Kopp	**APA-TR-2009-0302**	***PLA Area Defence Missile Systems***	HTML
C. Kopp	**APA-TR-2009-0501**	***Russian/Soviet/WarPac Ground Based ECM Systems***	HTML
C. Kopp	**APA-TR-2009-0502**	***Almaz-Antey S-300PMU2 Favorit / SA-20 Gargoyle***	HTML
C. Kopp	**APA-TR-2009-0503**	***40N6 / S-400 Triumf / SA-21***	HTML
C. Kopp	**APA-TR-2009-0504**	***NKMZ 40V6M/40V6MD Universal Mobile Mast***	HTML
C. Kopp	**APA-TR-2009-0601**	***Legacy Air Defence System Upgrades***	HTML
C. Kopp	**APA-TR-2009-0602**	***Almaz 5V24/5V27/S-125 Neva/Pechora / SA-3 Goa***	HTML
C. Kopp	**APA-TR-2009-0603**	***Almaz 5V21/28 / S-200VE Vega / SA-5 Gammon***	HTML
C. Kopp	**APA-TR-2009-0603-A**	***S-200VE Vega / SA-5 Gammon Missile Site Design***	HTML
C. Kopp	**APA-TR-2009-0604**	***Air Defence System Defensive Aids***	HTML
C. Kopp	**APA-TR-2009-0701**	***NIIP 2K12 Kub/Kvadrat / SA-6 Gainful***	HTML
C. Kopp	**APA-TR-2009-0702**	***Almaz S-75 Dvina/Desna/Volkhov / HQ-2A/B / CSA-1 / SA-2 Guideline***	HTML
C. Kopp	**APA-TR-2009-0702-A**	***SNR-75M3 Fan Song E Engagement Radar***	HTML
C. Kopp	**APA-TR-2009-0703**	***KBP 2K22/2K22M/M1 Tunguska SA-19 Grison / 96K6 Pantsir S1 / SA-22 SPAAGM***	HTML
C. Kopp	**APA-TR-2009-0704**	***NIEMI 9K33 Osa/Romb / SA-8 Gecko***	HTML
C. Kopp	**APA-TR-2009-0705**	***Kupol 9K330/9K331/9K332 Tor M/M1/M2 / SA-15 Gauntlet***	HTML
C. Kopp	**APA-TR-2009-0706**	***NIIP 9K37/9K37M1/9K317 Buk M1/M2 / SA-11/17 Gadfly/Grizzly***	HTML
C. Kopp	**APA-TR-2009-0801**	***KBTochmash 9K35 Strela 10 / SA-13 Gopher***	HTML
C. Kopp	**APA-TR-2009-0802**	***PLA Air to Air Missiles***	HTML
C. Kopp	**APA-TR-2009-0803**	***PLA Cruise Missiles / PLA Air - Surface Missiles***	HTML
C. Kopp	**APA-TR-2009-0804**	***Soviet/Russian Tactical Air to Surface Missiles***	HTML
C. Kopp	**APA-TR-2009-0805**	***Soviet/Russian Cruise Missiles***	HTML
C. Kopp	**APA-TR-2009-0806**	***Soviet/Russian Guided Bombs***	HTML
C. Kopp	**APA-TR-2009-0807**	***Sukhoi/KnAAPO Su-35BM/Su-35-1/Su-35S Flanker***	HTML
C. Kopp	**APA-TR-2009-0808**	***PLA Guided Bombs***	HTML
M. Andrew	**APA-TR-2009-0901**	***Modern PLA Armoured Vehicles***	HTML
M. Andrew	**APA-TR-2009-0901-A**	***ZBD05/ZLT05 Advanced Amphibious Assault Vehicles***	HTML
M. Andrew	**APA-TR-2009-0901-B**	***Type 96 and Type 99 Main Battle Tanks***	HTML
M. Gyűrösi	**APA-TR-2009-1101**	***NNIIRT 52E6MU Struna-1MU / Barrier E Bistatic Radar***	HTML
J. C. Wise	**APA-TR-2009-1102**	***Perspective on EW Receiver Design***	HTML
C. Kopp	**APA-TR-2009-1103**	***CPMIEC HQ-9 / HHQ-9 / FD-2000 / FT-2000 Self Propelled Air Defence System***	HTML
C. Kopp / J. C. Wise	**APA-TR-2009-1201**	***HQ-9 and HQ-12 SAM System Battery Radars***	HTML
S. O'Connor	**APA-TR-2009-1202**	***Russia's Strategic Missile Forces***	HTML
S. O'Connor	**APA-TR-2009-1203**	***Russian/Soviet Anti-Ballistic Missile Systems***	HTML
S. O'Connor	**APA-TR-2009-1204**	***PLA Second Artillery Corps***	HTML
S. O'Connor	**APA-TR-2009-1205-A**	***Soviet/Russian SAM Site Configuration Part 1***	HTML
S. O'Connor	**APA-TR-2009-1205-B**	***Soviet/Russian SAM Site Configuration Part 2***	HTML
M Gyűrösi	**APA-TR-2010-0101**	***The Soviet Fractional Orbital Bombardment System***	HTML
S. O'Connor	**APA-TR-2010-0102**	***Strategic SAM Deployment in Iran***	HTML
S. O'Connor	**APA-TR-2010-0103**	***Strategic SAM Deployment in Syria***	HTML
C. Kopp	**APA-TR-2010-0701**	***Tetraedr T38 "Stiletto" Short Range Self Propelled Air Defence System***	HTML
C. Kopp	**APA-TR-2010-0801**	***Tropospheric Scatter Communications Systems***	HTML
S. O'Connor	**APA-TR-2010-0802**	***PLA Ballistic Missiles***	HTML
C. Kopp / M. Andrew	**APA-TR-2010-0901**	***CPMIEC HQ-7/FM-80 / CSA-4 Sino-Crotale CPMIEC HQ-7/FM-90 / CSA-5 Sino-Crotale Self Propelled Air Defence Systems***	HTML
C. Kopp	**APA-TR-2010-1001**	***Surface to Air Missile Effectiveness in Past Conflicts***	HTML
C. Kopp / C. C .Jordan	**APA-TR-2010-1201**	***Der Gabelschwanz Teufel - Assessing the Lockheed P-38 Lightning***	HTML
C. Kopp / P. A. Goon	**APA-TR-2011-0101**	***Chengdu J-XX [J-20] Stealth Fighter Prototype A Preliminary Assessment***	HTML
C. Kopp	**APA-TR-2011-0301**	***Wedgetail AEW&C Apertures***	HTML
C. Kopp	**APA-TR-2011-0302**	***The Dawn of the Smart Bomb***	HTML
S. O'Connor	**APA-TR-2011-0601**	***Arming America's Interceptors: The Hughes Falcon Missile Family***	HTML

C. Kopp	APA-TR-2011-0602	*S-500 Triumfator M Self Propelled Air / Missile Defence System / SA-X-NN*	HTML
C. Kopp	APA-TR-2012-0301	*Digital Versus Wet Film Photographic Imaging*	HTML
C. Kopp	APA-TR-2012-0302	*Moore's Law and Telephoto Imaging*	HTML
C. Kopp	APA-TR-2012-0401	*PLA-AF and PLA-N Flanker Variants*	HTML
M. Andrew / C. Kopp	APA-TR-2012-0402	*Advances in PLA-N Carrier Aviation*	HTML



Air Power Australia Discussion Paper Master Index

Author(s)	Discussion Paper Number	Discussion Paper Title	Format
C. Kopp	APA-TR-2013-0801	*Exploring the Impacts of the Defence Trade Controls Act 2012*	PDF

AIR POWER AUSTRALIA

DEFENDING THE FUTURE

Air Power Australia Technical Report Master Index

Advertisement

F/FB-22 | SUKHOI | PLA AIR PWR | F-111 | F-35 JSF | F/A-18 | AAR/AIRLIFT | DEW / EMP | WEAPONS | ETHICS | MEDIA/NEWS
PACRIM WEPS | RUS WEPS | SAMS/IADS | MSLS/BMD | STRATEGY | HISTORICAL | ISR / NCW | INFOWAR/EW | TECHNOLOGY | LINKS | MEMBERS
TECH REPORT INDEX | AIR POWER AUSTRALIA ANALYSES | APH SUBMISSIONS

Artwork, graphic design, layout and text © 2004 - 2014 Carlo Kopp; Text © 2004 - 2014 Peter Goon; All rights reserved. Recommended browsers. Contact webmaster. Site navigation hints. Current hot topics.

Site Update Status: $Revision: 1.753 $ **Site History:** Notices and Updates / NLA Pandora Archive

Tweet Follow @APA_Updates

Select Language Select Language

Powered by Google Translate
Powered by Google Translate